

Commons, Assessments Head InsComm Agenda

What promises to be a very important meeting of Institute Committee will be broadcast over WMIT from Litchfield Lounge in Walker. Motions and reports on some of the biggest issues to come up before Inscomm will

FAC Convocation Smokers Planned For Spring Term

The impact of their professions on the men who make science and engineering their life work is the major consideration of the Freshman Advisory Council's program this spring.

A convocation of all freshmen will be held in the Kresge Auditorium on February 19 and a series of departmental lectures, smokers and the like will follow in the ensuing weeks. These are intended to give the freshman an insight into the financial emotional and intellectual rewards they will reap from their work, based on the experiences of a core of faculty consultants.

Realizing the importance of a well-rounded outlook on the choice of a field of study, the advisory group has reinstated with revisions a program of departmental introduction dropped a couple of years ago. The hope is that more foresight will go into the choice of curriculum.

A complete schedule of the program planned from February 14 to March 18 will be published when it becomes available.

Du Pont Presents Financial Grants, Grad Fellowships

E. I. Du Pont de Nemours and Company has awarded several grants to the Institute as part of its \$800,000 aid-to-education program for the 1955-1956 academic year.

The first of these is a post-graduate teaching assistantship in chemistry. This grant was established to encourage outstanding graduate students to continue teaching for a third year and thus enable both the school and the undergraduates to get the benefit of their added experience. (Most graduates teach only during the first two years of their graduate studies.) The grant provides \$2,400 for unmarried assistants and \$3,000 for married assistants, plus an award of \$500 to the Institute. The recipient will teach on a half time basis.

As part of the Du Pont program in
(Continued on page 6)

Whirlwind Show At Computer Lab

The Digital Computer Laboratory, 211 Massachusetts Avenue, will have Open House on the first Tuesday of each month from 5:00 to 6:00 p.m. for members of the MIT Community who are interested in seeing the Whirlwind I computer. A movie, "Making Electrons Count", which was made at this laboratory, will be shown, and a computer demonstration and tour will follow. Since each Open House will be limited to 35 guests, it will be necessary for those who desire to attend to make advance arrangements by calling Miss Nagle on MIT Ext. 3762.

be made at the Wednesday afternoon session.

The final report of the Commons Committee will list the recommendations of that group regarding compulsory feeding. A motion forbidding the leveling by Inscomm of any assessments against the Undergraduate Association will be offered, unless the approval of such an assessment by 50% of those voting in a student-wide referendum be first obtained. A minimum of 30% of the undergraduate body would be required for the referendum to be valid.

A complete report on the Discrimination Conference which will be held here at the end of March, will be presented by the Conference Steering Committee. The report will include the names of speakers and colleges which have accepted invitations to date, as well as the conference program.

Due to the fact that NSA will no
(Continued on page 4)

Tech Professor In Discussion Of Science, Security

On Friday, January 14, at 8:15 p.m. the Greater Boston Chapter of the Federation of American Students will present a panel discussion entitled *Security and the Freedom of Inquiry*.

Speakers for the evening will include: Robert Braucher, professor of law at Harvard; M. Stanley Livingston, professor of physics at the Institute; and Edwin B. Newman, lecturer in psychology at Harvard. Chairman of the meeting will be Kenneth T. Bainbridge, professor of physics at Harvard.

The meeting will be held in Allston Burr Hall A at Harvard. It is located at the intersection of Broadway and Quincy Streets in Cambridge.

Sloan Foundation Sponsors Executive Training Program

National competition for Sloan Fellowships to attend a year-long executive development program opened here last week. The awards are considered among the high honors which can come to young men entering on executive responsibilities in American industry.

Fellowships will be awarded to 30 to 35 young executives for work at the Institute next year. These Sloan Fellows will be organized into two groups of 15 to 18 men each.

Each Sloan Fellowship carries with it a financial award which helps to defray a portion of the costs of participating in the Executive Development Program. Each candidate for a Sloan Fellowship must be nominated by his employer and have from him the promise of financial support for the year.

The Sloan Fellowship awards are made possible by financial support from the Alfred P. Sloan Foundation, Inc., which also makes funds available to help meet M.I.T.'s costs in devoting major educational resources to the Executive Development Program.

Intensive Study Program

For the first few months of the program the Sloan Fellows undertake a

GE Aids Fundamental Revision Of Course VI With Educational Fund Grant Of \$50,000

A grant of \$50,000 from the General Electrical Educational and Charitable Fund to aid in a fundamental revision of undergraduate electrical engineering education at the Institute has been announced by Professor C. Richard Soderberg, Dean of Engineering.

The grant will aid Dr. Gordon S. Brown, head of the Department of Electrical Engineering, to develop

stimulating new instructional methods, materials, and techniques based on new concepts of teaching electrical engineering.

In announcing the grant Professor Soderberg said:

"The Institute's department of electrical engineering has a long record as a pioneer in developing educational methods in its field. From its early beginning as an option in physics in 1882, it awarded the first degrees in electrical engineering in the country in 1885. It was established as a department in 1902. Revision of the curriculum now calls for a break with tradition in every instance in which methods based on the heritage of the past no longer keep pace with or anticipate fundamental advances in the progress of modern science and engineering.

"As a result of studies under the direction of Dr. Brown, plans are going forward for a revitalized undergraduate curriculum. We expect this project to result in a manpower development program for the education of resourceful young engineering-scientists with finer technical skills and broader professional vision for the creative exploitation of modern science.

Support from Industry

"The grant indicates forward thinking on the part of one of the nation's leading enterprises in electrical engineering and a willingness to participate in a significant experiment in professional education. This close relationship between industry and education lends particular significance to this grant.

"Dr. Brown is working on this revision with the conviction that during their educational period students should be constantly confronted with the problems of tomorrow as well as the problems of today. It will be his aim to establish a unique system of classroom and laboratory instruction which will integrate a broad understanding of the fundamentals of mod-
(Continued on page 4)

SENIOR RINGS ON SALE

Senior Rings go on sale Monday, Tuesday and Wednesday of next week in the lobby of Building 10. They will be on display from 8:30 a.m. to 4:00 p.m. daily. A \$5.00 deposit will be necessary on all orders.

Vocalist Featured For Entertainment At All-Tech Dance

Warren Moon, star of 1955 Tech Show, will sing during intermissions at the All-Tech Dance, the committee announced. Moon, a freshman in course XV-A, was the hit of the Dorm Christmas Formal. Mrs. Roger Harris of Boston, who accompanied Moon at the Dorm dance, will play for him at the All-Tech affair, which will be held on February 19 at the Sheraton Plaza. Ralph Marterie's orchestra has been engaged for the evening.

Professor Samuel Mason, a faculty member of the dance's executive committee, cited the potential value of the All-Tech Dance in student-faculty relations, pointing out that students could realize the ideal of the dance by enjoying the company of the faculty. He suggested a ratio of four students to one faculty member as probably ideal for all concerned. The committee concurred, and seconded the idea that groups of students would have an even better time if they invited faculty members to sit at their tables.

New Jazz Group Meets Thursday In Music Library

This week marks the birth of a new activity at the Institute, a Jazz Society. This group is being formed to make jazz more easily available at M.I.T. and to provide a better understanding of it.

Its first meeting will be held this Thursday at 5:00 p.m. in the music library. This introductory, experimental session will consist mainly of several jazz numbers, presented by a group of about five musicians, following which the performers will give a short talk on such things as their jazz techniques and methods of improvisation. All interested people are urged to attend.

Plans for the future of the Jazz Society, which would be open to the whole M.I.T. family, are as yet indefinite, and will be made on the basis of suggestions by those interested, as well as the results of a questionnaire to be distributed at Thursday's meeting. Tentative plans include additional demonstration-lectures, to be presented by some of the leading musicians in the Boston area, jazz concerts at the Institute by other nationally famous jazz bands, small get-togethers to listen to jazz records, discussions on new trends in jazz playing and composition (at whatever technical level the group might prefer), the formation of small groups to play jazz, the supplementing of the music library's collections of jazz records, and of course serving to acquaint its members with others at the Institute who share their interests.

Those interested in more information, and especially those with suggestions for the future of the Jazz Society, should get in touch with Jack Gahrn '55 at KE 6-3389 or 229 Commonwealth Ave., Boston.

MITMA To Hear Prof. Goetz Talk On Grand Canyon

Prof. Billy Goetz, newest and most colorful addition to the faculty of the School of Industrial Management, will address a meeting of the MIT Management Association in the Shell Room of Building 52 at 7:30 p.m. Thursday. Goetz's subject for the meeting will be "How to Manage the Grand Canyon."

"Most people don't think there are many management problems at the Grand Canyon," John Saloma '55, MITMA President, said. "Most people think the canyon just sits there." Prof. Goetz was employed by the Fred Harvey chain of hotels and restaurants to advise the chain as to whether it should buy up the hotels, restaurants, curio shops and concessions at the South Rim of the Grand Canyon. He found more problems there than there are jokes about the MIT auditorium.

The Fred Harvey chain was the organization which followed the Santa Fe Railroad into the untamed West, operating high-class hotels and eateries at all railroad stations. One of the chain's first problems was holding on to its waitresses: they either married rich gamblers or were kidnapped by local hoods.

The MITMA meeting will be preceded by a dinner in the Silver Room of Walker Memorial. Attendance at the dinner, half the cost of which will be borne by Course XV, is on a first-come, first-served basis, limited to the first 22 MITMA members to make reservations with Miss Cummings (Room 52-580).

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Calendar of Events

from January 12 through January 19, 1955

WEDNESDAY, JANUARY 12

Acoustics Laboratory. Seminar: "Self-Excited Fluid Oscillations in Acoustics." Prof. Wesley L. Nyborg, Brown University. Room 20E-225, 4:00 p.m.
Mathematics Department. Colloquium: "Some Logical Problems in Neural Net Theory." Dr. Marvin Minsky, Harvard University. Room 2-246, 4:30 p.m. Tea will be served in Room 2-290 at 4:00 p.m.

Freshman Basketball Team. Game with Northeastern University. Rockwell Cage, 6:30 p.m.

Order of DeMolay—M.I.T. Chapter. Regular Meeting. Tyler Lounge, Walker Memorial, 7:30 p.m.

Varsity Basketball Team. Game with Northeastern University. Rockwell Cage, 8:15 p.m.

THURSDAY, JANUARY 13

American Chemical Society—Northeastern Section. Symposium on Isotopic Methods of Time Measurement in Geology. Chairman: Prof. John W. Irvine, Jr. Speakers: Prof. J. Laurence Kulp, Columbia University, "Lead and Carbon—14 Methods"; Prof. Patrick M. Hurley, "Argon, Strontium and Other Methods." Room 10-250, 4:00 p.m.

Physics Department. Colloquium: "Nuclear Thermochemistry and Shells." Prof. Charles D. Coryell. Room 6-120, 4:15 p.m.

M.I.T. Jazz Society. Opening meeting. Performance and discussion of jazz compositions by featured Boston musicians. Music Library, 5:00 p.m. Admission FREE.

Lecture Series Committee. Films: "The Man in the White Suit" with Alec Guinness, and "225,000-Mile Proving Ground" (Association of American Railroads). Room 1-190, 5:05, 7:30, and 9:30 p.m. Admission: 30 cents.

American Chemical Society—Northeastern Section. Lecture: "The Physical Structure of Gel Catalysts." Prof. Peter J. Debye, Cornell University. Room 10-250, 8:00 p.m.

FRIDAY, JANUARY 14

Mechanical Engineering Department. Seminar: "A New Method of Treating Boundary Conditions for Steady-State Thermal Problems." Mr. J. M. Bonneville. Room 3-370, 3:30 p.m. Coffee will be served in Room 3-174 from 3:00-3:30 p.m.

Varsity Squash Team. Meet with Williams College. Swimming Pool Building, 5:30 p.m.

East Campus and 5:15 Club. Acquaintance Dance. Morris Hall, Walker Memorial, 8:00 p.m.-12:00 midnight. Admission for men: \$1.00.

SATURDAY, JANUARY 15

Modern Languages Department. Graduate Language Examinations: French and Russian, Room 3-440, 10:00 a.m.-12:00 noon; German, Room 3-440, 2:00-4:00 p.m.

Varsity Fencing Team. Meet with Trinity College. Walker Memorial, 2:00 p.m.

Varsity Squash Team. Meet with Amherst College. Swimming Pool Building, 2:00 p.m.

Freshman Wrestling Team. Meet with Roxbury Latin School. Rockwell Cage, 2:00 p.m.

Informal Dance Committee. Dance. Refreshments and entertainment. Walker Memorial, 8:30 p.m.-12:00 midnight. Admission: \$1.00 per couple.

SUNDAY, JANUARY 16

Humanities Series. Piano recital by Prof. Ernst Levy, Visiting Carnegie Lecturer. Room 10-250, 3:00 p.m. Free tickets available in the Music Library.

MONDAY, JANUARY 17

Meteorology Department. M.I.T.-A.M.S. Seminar. Speakers: Geirmundur Arnason, "A Case Study of the Fields of Large-Scale Vertical Motion and Divergence"; Paul Morgenstern, "Synoptic Climatology of Weather Radar Pictures." Room 12-182, 4:00 p.m.

TUESDAY, JANUARY 18

Metallurgy Department. Colloquium: "Analysis of Diffusion Couples by X-ray Absorption." Mr. Robert E. Ogilvie. Room 4-370, 4:00 p.m.

Christian Science Organization. Subject: "Divine Guidance." Tyler Lounge, Walker Memorial, 5:15 p.m.

WEDNESDAY, JANUARY 19

Varsity Wrestling Team. Meet with Williams College. Rockwell Cage, 4:00 p.m.

M.I.T. Staff Players. Supper and play reading: Noel Coward's *Private Lives*, directed by Mrs. E. Francis Bowditch. Faculty Club, 6:15 p.m.

Order of DeMolay—M.I.T. Chapter. Special meeting. Tyler Lounge, Walker Memorial, 7:30 p.m.

EXHIBITS

Selected works of Yves Tanguy and Kay Sage, two surrealist painters, will be on exhibition in the New Gallery of the Charles Hayden Memorial Library through January 30. Hours: Monday through Friday, 9:00 a.m.-5:00 p.m.; Saturday and Sunday, 2:00-5:00 p.m.

Photographic Salon prints by David A. Murray of East Orange, New Jersey, will be on display in the Photo Service Gallery, Basement of Building 11, through January 30.

CALENDAR OF EVENTS

The Calendar of Events will not be published during the Reading and Examination Periods. The next Calendar will appear in THE TECH on Tuesday, February 8, with announcements for the following nine days (Tuesday through Wednesday). Notices, typewritten and signed, must be in the office of the editor, Room 7-204, not later than noon on Thursday prior to the date of publication. Material for the Calendar of February 8-16 is due February 3.

THE IVORY TOWER

by Berthold Lippel '56

Ode

To you, UMOG, I sing and dedicate these lines today. In this hour of triumph and glory, as you tower exaltedly above your defeated and beautiful competitors, I raise my voice in unison with the community to sing the praises of its most ugly son!

Many years ago, storm and thunder heralded your arrival into this world: it was nature herself shrinking back before such a sight. But the blind love of you-r parents sheltered you and kept the truth and fulfillment of your ugly genius from you. You grew up, despite the people who wanted to stuff you and place you in a museum or used your likeness to instill into their children unfathomable fear. You didn't care—you went your way through life with your twisted and sublimely ugly features in the clouds, awaiting the day when just homage would be paid to you.

Destiny, that inscrutable chess-player, brought you into our midst, and suddenly your big chance appeared. The people had gathered and proclaimed the search for The Most Ugly One! Your nostrils quivered with sudden pride and exaltation. With your best smile on your classically repulsive lips you placed yourself in solemn candidature before the people. Your hideous likeness began to appear on posters on every wall, and your admonitions told the people to grasp their unique historical chance to do justice to such never before and never again seen ugliness.

You had rivals and opponents, but you feared them not: their desperate resorts to beards and grimaces and tricks made you laugh. Only your ugliness was pure, an essence of ugliness—elementary, holy ugliness. To place eyes upon you was to shake the foundations of one's soul. In a flash one saw the truth behind you: the random cosmos and your ugliness supplanting the old and sentimental concepts of order and its illegitimate child-beauty. All the rebels of history looked with pride upon you and your cold assertion of ugliness as the new truth and shining future.

The people had its eyes wide open and when the moment of decision arrived, they engraved your name and likeness on the bronze mirror of history and seated you on your rightful throne.

And so today we celebrate and honor thee, o Most Ugly One. Our worshiping hands light a triumphant bonfire, and we give to the purifying flames Mona Lisa and Hermes and Venus and Marilyn Monroe—to be consumed as a sacrifice to the truth you have revealed, to that liberating vision of the triumph of the other side of our dual souls.

Away with beauty! Fulfill your mission, UMOG, and lead us, o homo horribilum, towards a tomorrow filled with the rebirth of ugliness. Hail to thee, o atrocious Caesar, we who are condemned to be beautiful salute, envy and worship you.

after hours

by C. Peter Speth '58

DANCES

Friday, January 14

MIT—The East Campus and 5:15 Club have joined forces to present an acquaintance dance in Walker Memorial. The dollar collected from each distinguished gentleman will go to the new Student Union Fund. Cookies for the kiddies and soft drinks will be featured.

BRANDEIS—Good opportunity for goofing off before exams—The Junior Class is sponsoring a Benzadrine Brall at The Meadows in Framingham. The admission is free for those taking Brandeis dates. All others must pay the regular cover charge. Life begins at forty, but the fun begins at 8:30.

FRANKLIN SQUARE HOUSE—If your not prematurely browning for exams get a free ticket in the T.C.A. office for an informal dance. The Band Wagon begins to roll at 8 on the large dance floor at F.S.H. Saturday, January 15.

MIT—Bring your girl to the last I.D.C. before you are snowed under with the semi-annual annoyances known as finals. The usual refreshments and entertainment are included in the one dollar fee. Walker, naturally.

Choral Society Hailed In Outstanding Performance

by Daniel B. Schneider '57

M. I. T. CHORAL SOCIETY
Klaus Liepmann, conductor
with the

Zimble Sinfonietta
and Assisting Artists
Sanders Theater

Sunday, January 9, 1955 8:30 p.m.

Soloists:

Nancy Trickey, *soprano*
Eunice Alberts, *alto*
Donald Sullivan, *tenor*
James Clancy, *tenor*
Paul Matthen, *bass*

Program:

Stravinsky Mass
Mozart Requiem

The word that best describes Sunday's performance by the M.I.T. Choral Society with the Zimble Sinfonietta and assisting soloists is magnificent, for what the sell-out audience heard was a professional performance of high calibre by an amateur organization.

When one thinks of college choral groups, it is usually the Harvard-Radcliffe Chorus that first comes to mind, and yet this ensemble would have to work industrially to surpass the quality of the Choral Society's performance.

Ambitious Program

The program was ambitious, for an organization which rehearses but a few hours a week. The Stravinsky requires a high level of musicianship just to sing, let alone to interpret. It is one of the composer's most controversial works, having been both condemned and praised by some of the best critics.

The Mass is not among his more dissonant compositions, but it is designed to achieve a result directly opposite to that of other Masses of previous composers, namely to be plain that religious expression would not be subservient to musical artistry. Stravinsky accomplishes this with an instrumental accompaniment of ten winds and with simple, direct melod-

ics. The work is musically ascetic, and yet beautiful in its lucidity.

Professor Liepmann's performance was in keeping with this idea. The accompaniment was even and clear, although a bit heavy, and the Choral Society sang with a remarkable understanding of the composition. Their intonation, usually a major problem in an amateur group during a performance of this sort, was amazingly fine. The Gloria was sung beautifully, as was the Hosanna, in all its lyric power. The soloists, particularly (Continued on page 3)

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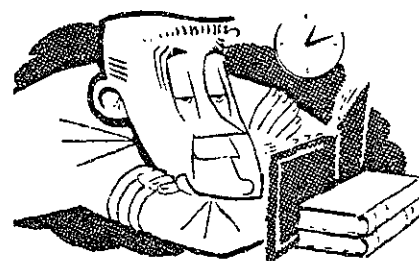
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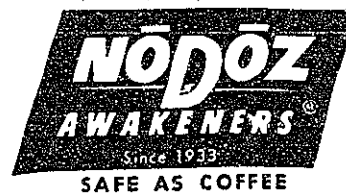
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THE KIBITZER

by Lee S. Richardson '50

NORTH
S—A 5 3 2
H—K 10
D—A 4 3
C—Q 10 8 7

WEST
S—8 7 4
H—A 8 6 5
D—9 8 7 6 5
C—6

EAST
S—K Q J 10 9 6
H—7 3 2
D—
C—9 5 4 3

SOUTH
S—
H—Q J 9 4
D—K Q J 10 2
C—A K J 2

The Bidding:

S	W	N	E
1D	P	2NT	P
3H	P	3NT	P
4C	P	4S	P
5D	P	6D	P
		(or 6C)	
P	Dbl.	P	P
P			

Neither side vulnerable
Opening Lead?

This hand, from a rubber game at East Campus, has twelve tricks in it, but a slam can't be made against proper defense. The normal contract (although not the best) was six diamonds, reached as shown. (The four club bid was a suit bid and not Gerber.) West now had the enviable position of leading to set. He chose to lead a club, and the contract wrapped up. First trumps were pulled, and the ace of hearts was driven out. However, if west leads a spade instead, the contract is down. The problem is how to find the spade lead.

It is clear from west's hand and the offensive bidding that south has ex-

actly five diamonds and should be able to pull west's trump. It is equally as clear that north-south have no losers in hearts or clubs, other than the ace of hearts. This would seem to indicate a spade lead. True, north has cue bid the ace of spades, but spades look to be the only hope.

The contract, however, is not the best one to be in. Six clubs, arrived at by essentially the same bidding, is a better contract, on the basis of four-four trump distribution being preferable to five-three. The opening diamond lead from west, indicated by his five diamonds, gives east a ruff, and a heart return and another ruff sets the contract two.

The most interesting play comes from the club contract if east returns a spade after trumping the opening diamond lead. South pulls trumps with three swings (east has trumped once), and then plays diamonds, discarding hearts from the board. South then finesses west for the ace of hearts, returns to his hand by trumping a small spade, and cashes his good hearts.

Sloan
(Continued from page 1)

sible personal visits to managements of companies in many fields of activity and to government officials who are responsible for Federal policies affecting all phases of the nation's economy. Complete information on the Executive Development Program and application blanks for Sloan Fellowships may be obtained from the Director of the Executive Development Program at the School of Industrial Management.

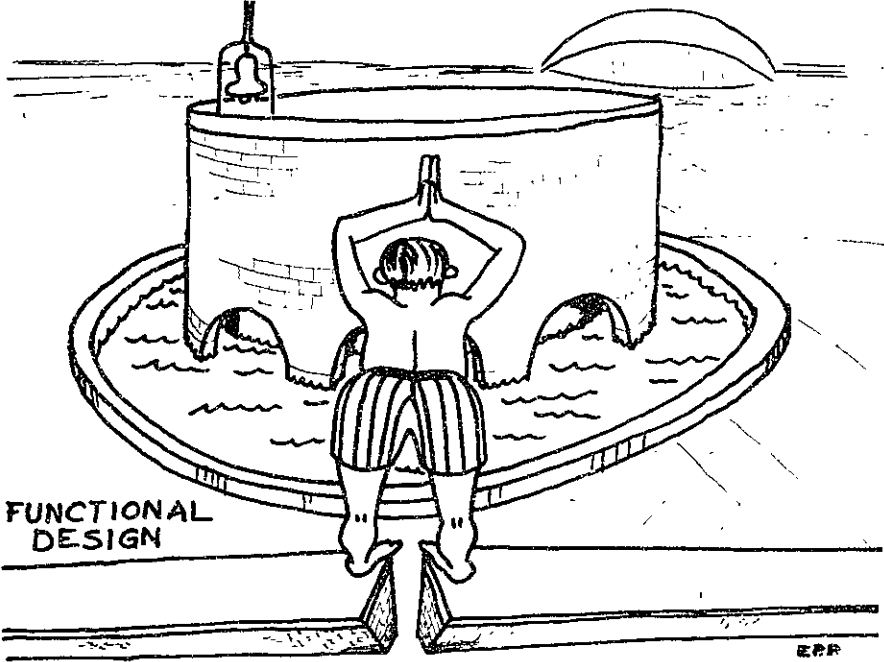
How To Have That Vigorous Vitality During Exams

With final examinations coming up and the near termination of the present Managing Board of *The Tech*, the Features Department feels that the students' psychological outlook during Finals Week should be defined and encouraged along the proper paths. It is not a common sight to see unshaven Techmen wandering about The Institute's long corridors with dilated pupils, gray hairs, eye shadows and white skin during these days of dilemma. To avoid these symptoms of fatigue and mental anguish we suggest the following remedy.

The first thing you have to do is to ask your lady friends for their recent photographs. Bathing suit snapshots are preferred, of-course! These you carefully paste in your textbooks, one picture per textbook. This will encourage you to at least open the textbook in a relaxed state of mind.

Next, you have to plan a trip. Where you go does not make too much of a difference as long as you get away from the graystone of M.I.T. This excursion should start five minutes after your last final examination has been handed in. For many students this trip will just be a trip home. But that is not enough. You want to completely forget that M.I.T. exists for some seven or eight glorious days of liberation.

For the outdoor enthusiast a ski trip is in order. Vermont and New Hampshire are the New England ski states. If you don't know how to ski, or don't have the equipment neces-



sary, go anyway!! Several ski slopes have beginners equipment for rent. Also, don't plan this trip for just yourself, have several of your friends go with you. Spend some fifty dollars. This recreation is going to give you something to look forward to during Finals Week, something to replace the horrors of M.I.T., and something to carry you through the Spring Term.

Next comes the "Social Beaver". For him we have a special treat. He is going to visit Miami Beach and join the ranks of the "Girl Gazers Society". This is not an expensive trip if you plan it right. Someone in your party has to have an automobile in good condition. Normal car costs will come to a maximum of ninety dollars round trip from Boston. This cost divided by three is reasonable enough for a three thousand-mile trip. You will have to plan your driving in shifts and make your own

decisions as to where you will sleep. If you are able to rough it, sleep out in a sleeping bag or a blanket roll. The three to five days on the warm sand will be worth the trouble and
(Continued on page 4)

Concert
(Continued from page 2)

ly Mr. Matthen, were outstanding.
Requiem Exquisite

The Requiem, a sharp contrast to the Stravinsky, showed magnificent artistry on the part of both chorus and soloists. From the opening bars to the moving close it was a thrilling performance. Each group was in its proper perspective under Professor Liepmann's baton, with the Choral Society overpowering in the stirring Rex Tremendae, and vibrant in the Kyrie and Agnus Dei. Their intonation was excellent, as was their balance, with the exception of a slight weakness in the male voices. Their enunciation, although not perfectly clear, was usually understandable.

The four soloists each turned in outstanding performances, particularly in the Mass and in the Recordare of the Requiem. However, it was a little difficult at times to hear Miss Alberts, particularly in the lower registers. Mr. Clancy is a member of the Choral Society and assisted Mr. Sullivan in a passage of the Mass.

Chorus Misses Entrance

Despite the serious program, the evening was not without its comedy. When the soloists and Professor Liepmann entered after the intermission for the performance of the Requiem, they found the orchestra properly seated, but the chorus was nowhere in sight. Observing this situation, Professor Liepmann sent a bassoonist to fetch them, and calmly seated himself while awaiting their belated appearance.

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Automation is a way of manufacturing based on the continuous-flow concept. Products will be made, inspected, assembled, tested, and packaged by a series of integrated machines in one uninterrupted flow. As industry evolves toward greater automation, more workmen will become skilled machine specialists or maintenance experts able to control complete systems.

Phil Alspach and the men under him now draft layouts for automatic systems, tackle the engineering problems involved, design automation equipment, and even build some.

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PHIL ALSPACH joined G.E. shortly after graduation from Tulane (B.S. in M.E., '44), has completed G.E.'s Engineering Program, Class of 1945, and its Creative Engineering Course, 1949.

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GENERAL ELECTRIC

Squashmen Split On Road; Rout Fordham, Tigers Win

The varsity squash team traveled to New York last Friday and drubbed a weak Fordham team 9-0, losing only two games in the process. Captain Ray Morales, in the number one position, played below his usual form but outlasted his opponent 3-1. Howie Cohen's corner shots proved too much for Fordham's second man and he won his match handily. Walt Stahl had his opponent completely bewildered with hard cross court shots and swept his match as did Don Steig, despite being clubbed in the face with a racket. Tom Thomas and Al Hahn overwhelmed their opponents, Gordie Bruggeman won in four games, and Rene Mendes de Leon and Dave Morse completed the rout with straight game victories.

Bow To Princeton

On Saturday the team journeyed to Princeton and lost 9-0, to a strong Tiger aggregation. Led by intercollegiate champion Roger Campbell, Princeton had little difficulty in overcoming the Engineers. Ray Morales and Walt Stahl were the only Techmen to win games as most of the matches were completely one-sided.

The squashmen have a rugged week ahead of them with matches Thursday, Friday, and Saturday against Harvard, Williams, and Amherst respectively.

The scores of last weekend's matches follow:

At Fordham:

1. Morales d. Garesche 10-15, 15-9, 15-11, 15-12.
2. Cohen d. Coleman 15-10, 15-12, 15-2.
3. Stahl d. McLaughlin 15-8, 15-7, 15-5.
4. Steig d. Gubitose 15-10, 15-8, 15-9.
5. Thomas d. Finn 16-14, 15-3, 15-4.
6. Hahn d. Galulo 15-2, 15-10, 15-2.
7. Bruggeman d. Flynn 10-15, 15-6, 15-6, 15-2.
8. Mendes de Leon d. Scott 15-5, 15-5, 15-4.
9. Morse d. Bowen 15-12, 15-4, 15-13.

At Princeton:

1. Campbell d. Cohen 15-3, 15-3, 15-7.
2. Rogers d. Morales 18-17, 15-12, 10-15, 15-12.
3. Fox d. Stahl 15-11, 15-8, 14-17, 15-5.
4. Gardner d. Steig 15-6, 15-7, 15-8.
5. Webster d. Thomas 15-11, 15-6, 15-8.
6. Van Riper d. Hahn 15-5, 15-12, 15-9.
7. Evans d. Bruggeman 15-5, 15-6, 15-10.
8. Nash d. Mendes de Leon 15-0, 15-13, 15-5.
9. Weeder d. Morse 15-10, 15-7, 15-7.

Powerful Cornell Downs Fencers; Kubierschky Wins

A green MIT fencing team went up against a powerful Cornell squad Saturday and came out on the short end of a 22-5 score. Against most other schools this would indicate an extremely weak season to come but Cornell is, as always, loaded and the showing of the Beavers was, as a whole, creditable. The Cardinal and Grey fencers showed a fairly strong foil and sabre group and an epee section which, though almost completely new, did commendably. Inasmuch as this was the first meet of the season and the squad is green, better things can be expected as we meet schools more in our class.

Individual winners for MIT were Frank Davenport '55, foil; Klaus Kubierschky '57, foil; Captain Ed Somody '55, sabre; Harvey Levine '56, sabre; Ed Bristol '57, epee.

G. E.

(Continued from page 1)
ern science and the creative ability to make the transition from the classroom to professional practice more effective than ever before.

New Equipment, Methods

"New teaching materials designed to bring to students an early appreciation of the wide range of scientific fundamentals and their application in terms of function will be an important goal in the new curriculum. These subjects include the conversion and control of energy, energy radiation, the processing of information, modulation and amplification. Emphasis will be placed on entirely new laboratory instruments and equipment designed to stimulate instruction in the bold and imaginative exploitation of energy and new materials as well as in new devices. The plan calls for laboratory instruction which breaks with tradition to bring a new dimension of creative development in undergraduate education."

The grant from the General Electric Educational and Charitable Fund will make it possible to study a new synthesis of classroom and laboratory material, documentation of new material in the form of classroom notes and texts, the development of new techniques of laboratory instruction and the assembly of a teaching staff with exceptional qualifications for achieving the goals of the new curriculum.

Christopher

(Continued from page 1)

meaningful films for the use of TV stations. Voluntary contributions provide the necessary funds for making the films.

All entries and further inquiries should be addressed to Christopher College Student Contest, 18 East 48th Street, New York 17, N. Y.

Wesleyan Tops Wrestlers; Captain Graef Only Winner

With only two regular starters in eight weight classes M.I.T.'s grapplers went down to a mediocre Wesleyan squad by a 24-3 rout. Forfeits in three weights gave the Wesmen twelve points free at the start but Tech started strongly as Captain Jack Graef overwhelmed his opponent for three team points. Graef, however was the only wrestler to add any points to the Engineer's side of the scoreboard. At full strength the team would have made a far better showing as this year, they could potentially field one of the top squads in New England.

InsComm

(Continued from Page 1)

longer run a carnival and donate the proceeds to the World University Service, an appeal will be made by WUS that Inscomm itself run some fund-raising affair.

Executive Committee will attempt to solve the dilemma of how to choose a vice-president by introducing a motion that he be elected from a separate slate of candidates on the same day that the president of the Undergraduate Association is elected.

As a follow-up to last week's conference on student-faculty relations, a motion will instruct Executive Committee to proceed informally in attempting to establish on a trial basis the appointment of student advisors to faculty committees such as those on Undergraduate Policy, Student Environment, and others.

WMIT's broadcast will last from 5:15 to 6:30 p.m.

Trip

(Continued from page 3)

expense.

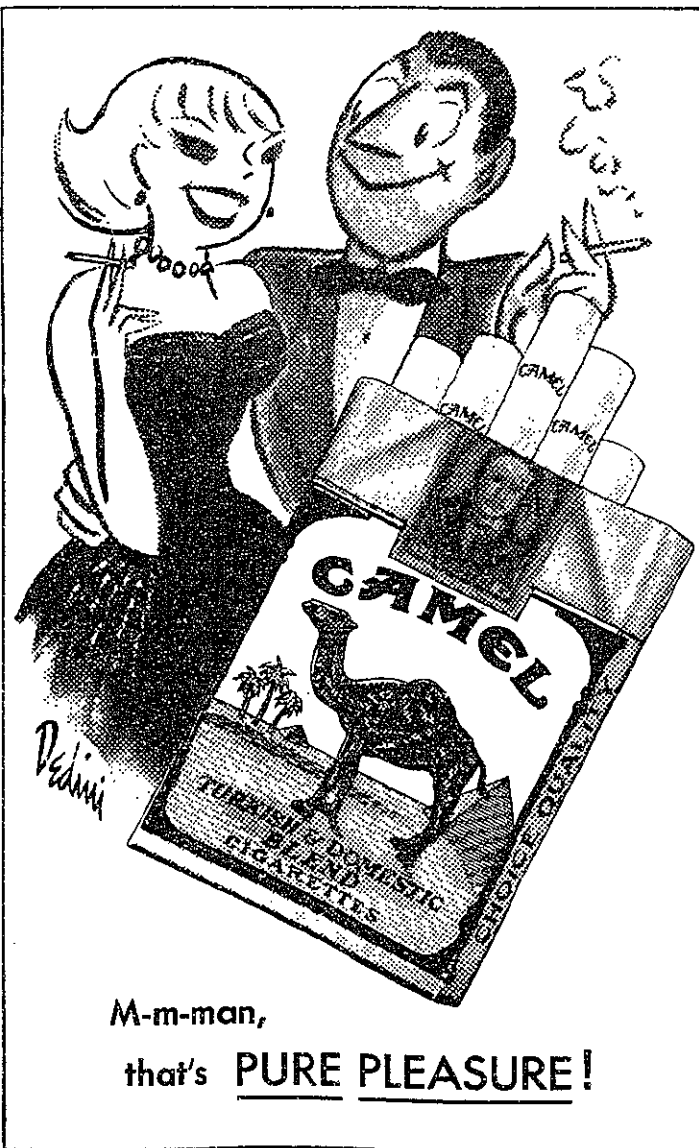
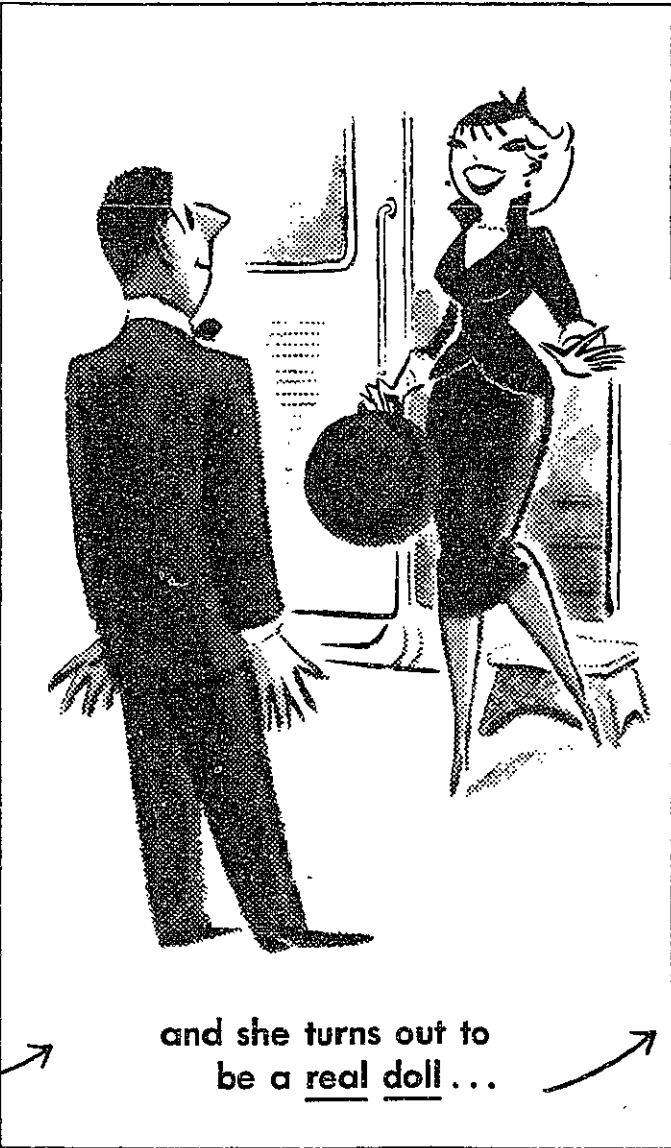
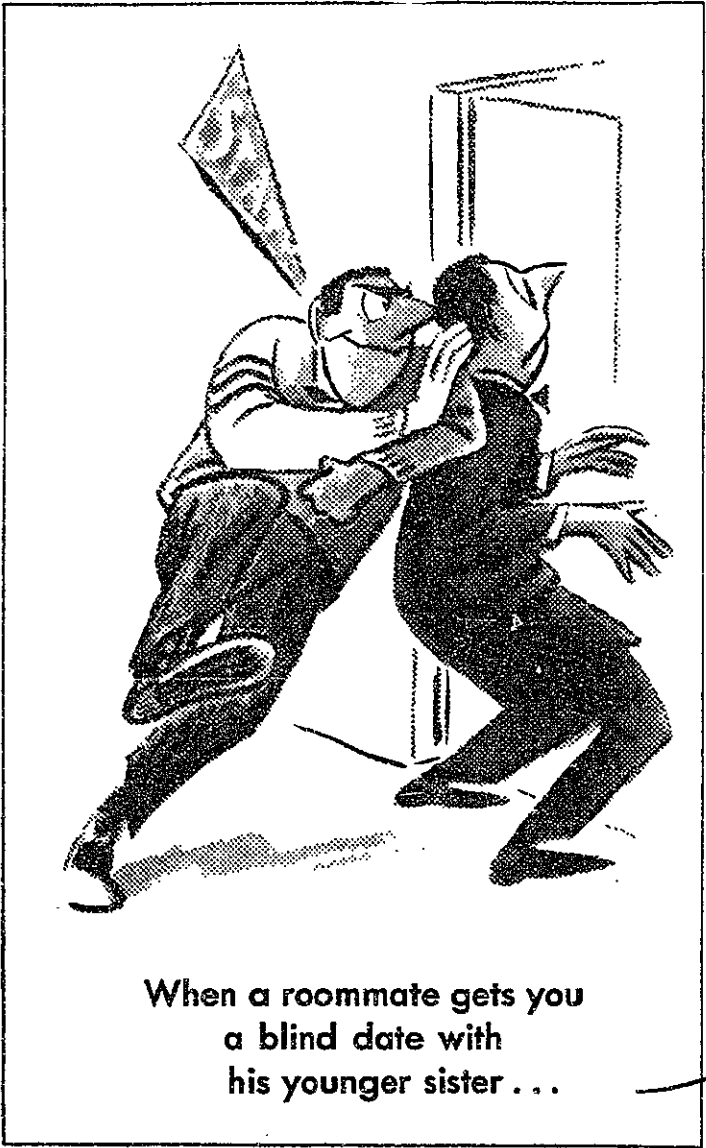
If none of these suggestions appeal to you, if you don't particularly care to forget about the Institute, if you are in good health and spirits during Finals Week, . . . you like this place, don't you!!!!

Hirschi Beaten

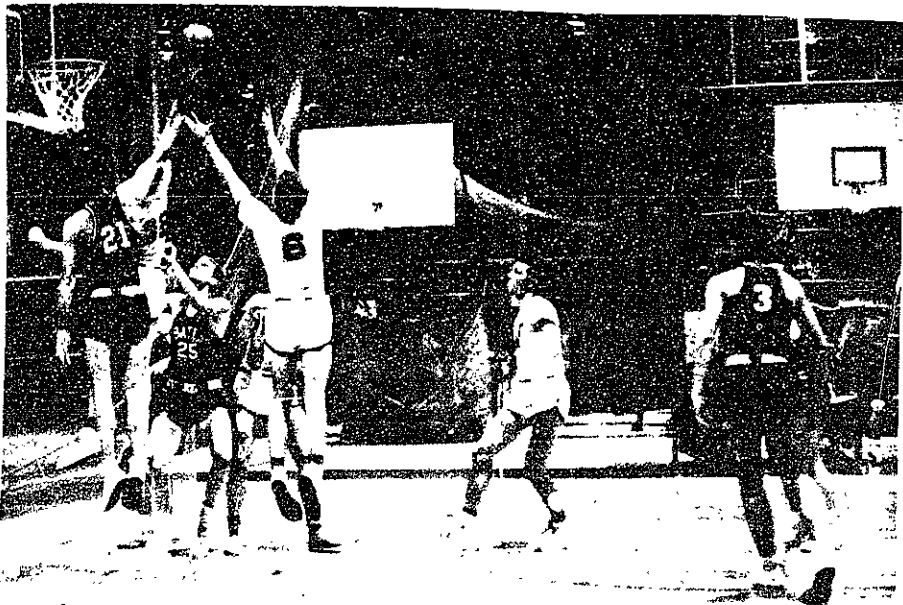
John Hirschi's unbeaten streak, extending from last season, came to an end at the hands of Kent Davies when he was taken down in the last fifteen seconds to give Davies a two point edge. Till then the two had fought to a 5-5 tie in the best match of the afternoon. Mike Flint also lost a close decision while, in lighter classes, Don Evans and Cliff Monzeglio were pinned. M.I.T. could field no men at 123 and two heavyweight positions.

The freshmen were on their way to a win when in the 157 pound match, Roland Erikson had his opponent on his back when the Wesleyan grappler rolled out to catch Erikson in a freak pin. Up to that point the frosh had eleven points from falls by Ray Ortler, unbeaten to date, and Harris Hyman and a decision by Bob Schmidt. A pin and a forfeit gave Wesleyan its margin of victory as the yearlings lost their third in a row 20-11.

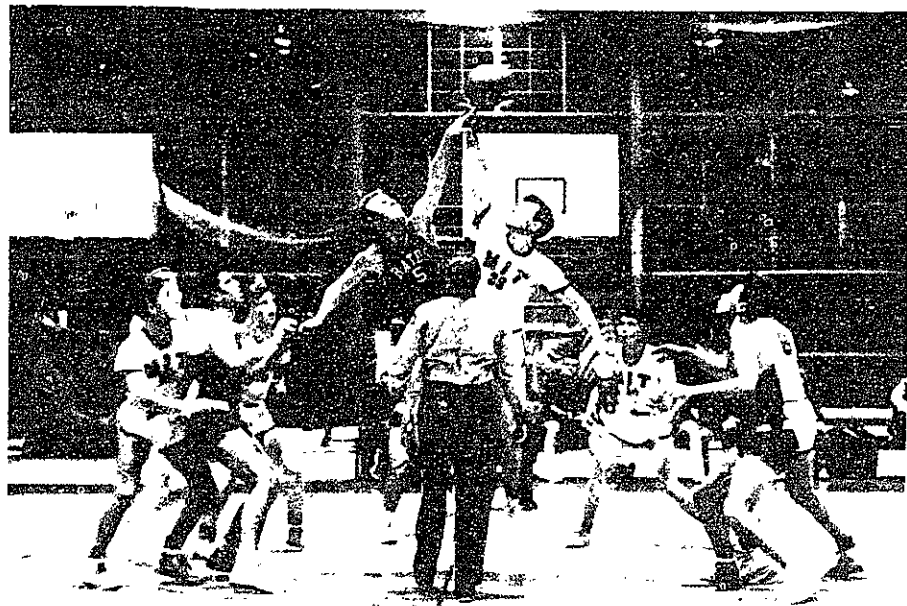
The Beavers make their first home start on Wednesday, Jan. 18 at four in Rockwell Cage against Williams. The freshmen meet Roxbury Latin School this Saturday afternoon in the cage.



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CAGERS IN ACTION AGAINST BATES
Top: Weber (32) Taps Fey's (6) Shot Against. Hohorst waits for the rebound.
Bottom: Likely (36) goes high for a jump ball. Muraskin (14), Hohorst (22) jockey for position.



Vergun Paces Cagers, Nets 30; Varsity Rally Tops Clark, 73-66 After Bowing To Bates, 49-38

High scoring center Dee Vergun sparked a second half rally that brought a 73-66 win to Scotty Whitelaw's varsity cagers. In topping Clark, conquerors of B.U. earlier this season, the Beavers showed a marked improvement over the Bates game. It would have been hard to do otherwise for Bates, one of the weakest opponents faced by Tech, routed an inept, lethargic and woefully stale Engineer quintet, 49-38.

With a little under five minutes remaining in the first half and Clark with a 32-23 margin, Coach Whitelaw inserted Vergun, in danger with three personals. Dee, rebounding well, led a spurt which cut the Clark lead to a halftime 34-30.

Tech Rallies

An exchange of baskets and a flurry of Clark tallies made it 41-34. Three foul shots and Cap-

tain Carl Hess' jump made it 41-39 and Tech was in business. Vergun tied the score with a pair of free tosses and put the Beavers ahead with a sensational fifteen foot hook banked off the board from the right side. Dee, hotter than the proverbial pistol, hit with three straight jump shots from around the foul line. George of Clark scored on a set but Vergun countered with his fourth straight shot, a jumper from the left side of the circle with a Clark man on his back.

Clark scored on a foul shot and a tip-in, narrowing the gap to 49-46. That was as close as they were to get. Hallee hit a tip-in and a pair of fouls and Vergun scored his fifth straight, a jump shot from the foul line. The two teams traded buckets until, with a scant six minutes left, the visitors' Cocchiolo hit a pair of booming set shots from near mid court. Cocchiolo's

three overtime set shots had nipped B.U. in overtime.

Tech Freezes

Hess scored a foul and Dee a jump-shot and free throw, widening the Tech margin to a comfortable nine points, 65-56. Rhodes of Clark tallied two charity tosses but Phil Platzman countered with one. The visitors' Allen scored on a drive and Rhodes added two more fouls. The Engineer lead had dwindled to a mere four points, 66-62. The Beavers, playing sloppily, went into a deep freeze with Vergun moving out to mid court and forcing the defense to come out and meet him. all-court press, and Tech broke Weber loose for a lay-up and picked up five foul shots to Clark's two in a last second drive.

The final was 73-66 with Coach

Whitelaw's men, recovered from their short-lived ball-handling slump, looking more and more impressive.

Bates Game Dull

The Bates game was a dull and discouraging affair. Bates fielded an unimpressive five with an active defense. Tech, playing without starter Jack Britt, was off on timing and shooting, and not overly inspired. The score saw-sawed throughout the first ten minutes. Hartleb of Bates hit eight straight points and a lay-up made it 25-16 Bates, a lead they never relinquished. The half ended Bates 27 and Tech 20.

A six point flurry five minutes after the second half began cut the Bobcats' lead to four points, 32-28, but that was as close as the Engineers could get. Coach Whitelaw substituted freely but was unable to find a hot shooter.

Large Crowd

When Vergun fouled out midway in the period, the game, for all intensive purposes, was over. MIT was able to score on only sixteen per cent of its shots while Bates hit for a normal thirty-odd. The game itself was poorly played from almost any viewpoint, colorless, boring and most depressing for the four hundred plus Tech rooters who suffered through the contest. The Clark game attracted the largest crowd this season, somewhere over five hundred.

The next game will be against Northeastern, at Rockwell Cage this Wednesday night.

BATES

	FG	F	TP
Smith rf	1	0	2
Moore	2	1	5
Hartleb lf	8	3	19
Manteiga c	5	1	11
Dunn rg	1	3	5
Callender	1	1	3
White lg	1	0	2
Paws	0	2	2
	19	11	49

M. I. T.

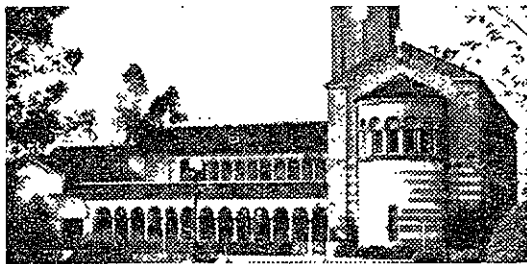
	FG	F	TP
Matsuo lg	0	0	0
Benson	1	0	2
Hess rg	1	4	6
Muraskin	2	0	4
Vergun	2	1	5
Lickley	1	0	2
Weber lg	1	3	5
Fey	1	0	2
Platzman rf	2	1	5
Halley	2	2	6
Hohorst	0	1	1
	13	12	38

CLARK

	FG	F	TP
Rukan lf	7	3	17
Rhodes	2	9	13
George rf	6	2	14
Gibbons	0	1	1
Viestra c	4	3	11
Blanchard	0	0	0
Cocchiolo lg	3	0	6
Allen	1	0	2
Weller rg	1	0	2
	24	18	66

M. I. T.

	FG	F	TP
Hess lg	1	3	5
Benson	0	2	2
Matsuo rg	0	2	2
Britt	0	0	0
Vergun c	12	6	30
Friedman	0	0	0
Howard	0	0	0
Weber lf	3	10	16
Platzman rf	2	2	6
Halley	4	4	12
	72	29	73



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Institute Receives Present Of Famous Dedham Estate

Science Teachers Compete For 50 Summer Grants

Rockwood, famous for its flower gardens and as the residence of the late H. Wendell Endicott of Dedham, has been presented to the Institute by the executors of Mr. Endicott's estate.

The property consists of a large house, about 18 acres of flower gardens and arboretum, swimming pool, tennis courts, and attendant buildings. The house, which is in the 14th century French style, was the last large house designed by the late Charles A. Platt of New York City. Completed in 1934, it is of steel and reinforced concrete construction, faced with brick and limestone, and numbers about 50 rooms.

The property has been of interest to horticulturists, particularly in recent years when the jonquil and azalea display has been opened to the public in the spring. Many rare fine specimen trees, acquired by the late General Weld many years ago from the world over, stand in the arboretum section. This property includes also the rhododendron-bordered Rock Garden Pond and its flowering trees, as well as the rest of the formal garden.

President James R. Killian has appointed a faculty committee to make recommendations for the purposes for which the property may be used. Isolated, as it is, in spacious grounds, the estate offers unexcelled facilities for conferences, meetings, and other group activities which are a normal part of the Institute's broad educational program. It includes not only large rooms for gatherings but living facilities for those who may be in residence.

Institute Alphabet Changes As DIC Becomes OSR

Important changes in staff assignments have resulted from organization of the Office of Sponsored Research and the transfer of laboratories to the Division of Defense Laboratories.

Nathaniel McL. Sage, Director of the Division of Industrial Cooperation since October, 1939, becomes Director of the Office of Sponsored Research.

Dr. F. Leroy Foster, who has been Associate Director of the Division of Industrial Cooperation since July, 1952, will succeed Mr. Sage as Director of the Division.

Mr. Henry W. Fitzpatrick, Assistant Director of the Division of Defense Laboratories since he joined the Institute staff in March, 1953, becomes Associate Director of the Division of Defense Laboratories and will continue to work under Mr. Horace S. Ford, the acting Director. Prior to joining the staff at M.I.T., Mr. Fitzpatrick had extensive experience in the Research and Development Board of the Department of Defense in the Office of Naval Research, Navy Department, and in the Navy Cost Inspection Service.

Mr. T. J. Crane becomes Manager of the newly created Research Fiscal Office, an agency of the Office of the Vice-President and Treasurer. The Research Fiscal Office is established to perform the accounting and financial reporting functions which heretofore have been the responsibilities of the Division of Industrial Cooperation and the Division of Defense Laboratories. Mr. Crane joined the Institute in February, 1953, as Assistant Fiscal Officer of the Division of Industrial Cooperation.

Du Pont

(Continued from page 1)

aid to fundamental researches in science the Institute has been awarded \$15,000 for unrestricted fundamental chemical research.

Three Fellowships

Finally, three postgraduate fellowships have been awarded in the fields of chemical engineering, physics and mechanical engineering. Each of these fellowships provides \$1,500 for the student, except for first year graduates, who will receive \$1,200. An additional allowance of \$600 is made to married students. In addition, tuition and fees are paid and a contribution of \$1,200 is made to the Institute with each fellowship.

Sun Energy-Wind Change Explained By Meteorologist

Conversion of energy from the sun into the vast wind currents which swirl throughout our atmosphere has for the first time been explained.

Dr. Hsiao-lan Kuo, now working in meteorological research at the Institute, has succeeded in demonstrating by means of purely mathematical and physical considerations, why the broad features of the circulation of the atmosphere assume the form they do.

Dr. Kuo's work is part of a longer range program in the M.I.T. Meteorology Department sponsored by the Air Force Cambridge Research Center. This program was initiated in 1947 with the purpose of coordinating and interpreting the tremendous mass of observational information about the atmosphere which has become available since the end of World War II.

National competition for fellowships for high school teachers of chemistry, physics and biology throughout the United States and Canada to attend a special program at the Institute during this summer was announced last month.

Dr. Ernest H. Huntress, director of the Summer Session, disclosed that assistance from the Westinghouse Educational Foundation will make possible a total of fifty fellowships of \$250 each to help meet the costs of the program.

First established in 1949, this program will be the seventh offered to science teachers by the Institute.

This year's fellowship winners will attend a six-week program of study at M.I.T. from Monday, June 27, through Friday, August 5. Designed by a special faculty committee, this program will provide a review of fundamental subject matter in physics, chemistry and biology, and a survey of recent scientific developments not only in these fields but also in meteorology and aeronautical engineering.

The program will be under the direction of an M.I.T. faculty committee consisting of: Dr. Arthur R. Davis, Associate Professor of Inorganic Chemistry (Chairman); Dr. Sanborn C. Brown, Associate Professor of Physics; Dr. Irwin W. Sizer, Associate Professor of Biochemistry; and Dr. George P. Wadsworth, Associate Professor of Mathematics.

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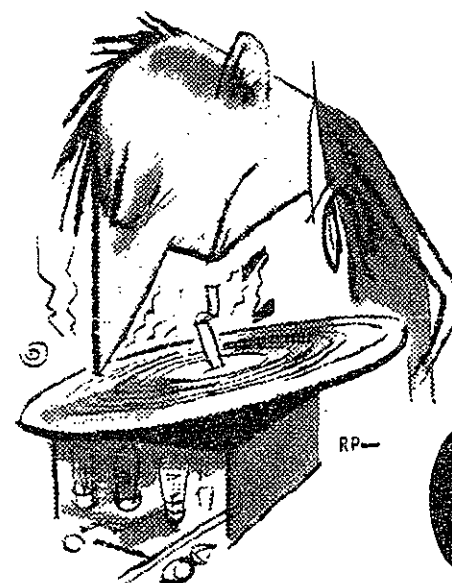
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